



MEMORANDUM

To: Steven Renninger, USEPA OSC
John Sherrard, CSS-Dynamac

REF. No.: 038443

FROM: Adam Loney & Valerie Chan, CRA *ACL*

DATE: December 12, 2013

CC: Ken Brown, ITW; Jim Campbell, EMI for ITW; Bryan Heath, NCR;
Paul Jack, Castle Bay

RE: Command Roofing, Building 16, 2045 Dryden Road

Conestoga-Rovers & Associates has prepared this memorandum to document the current conditions at the Command Roofing Building (Building 16), located at 2045 Dryden Road and to provide recommendations regarding vapor intrusion mitigation measures at this building. On June 22, 2011, representatives of CH2M Hill, Ohio EPA, the Respondents, and CRA completed a building survey of Parcel 5174, Building 16, located at 2045 Dryden Road, occupied by Command Roofing. The building survey was completed in order to gather information necessary to develop a vapor intrusion (VI)-specific conceptual site model (CSM). Attachment A presents photographs of Command Roofing Building 16. A Building Physical Survey Questionnaire form with CRA, Ohio EPA, and/or CH2M Hill observations is provided in Attachment B. The CSM includes building information such as building use, design, floor slab condition, and VOC and methane concentrations measured at nearby investigative locations. Figure 1 presents the CSM for Command Roofing Building 16.

Building 16 is a single-story, commercial-use, concrete slab-on-grade, storage building, constructed in various stages prior to 1968. The building footprint is 12,500 square feet (ft^2) and is comprised of the original building (Area B) and four additions (Areas A, C, D, and E). Areas A to E are shown on Figure 1. Area A (approximately 12 feet in height) and Area B (approximately 16 feet in height) are constructed with brick, and contain poorly sealed windows. Spray-on insulation, possibly containing asbestos, is present in Area B. Areas C (approximately 24 feet in height) to E were constructed with steel beams and metal siding. The building is used by Command Roofing for roofing material storage. There is a former office space (Area A) on the eastern side that is not currently in use and would require extensive renovation to return it to a usable condition. The building does not have operating HVAC equipment, is not air tight, and is damp and moldy, with visible evidence of water staining in Area A (office). The building floor slab is in poor condition, with cracks and unsealed joints throughout the building, and is particularly fractured in Areas D and E. Through Areas B and E, heavy floor staining is present. Exterior openings include office windows, personnel doors, sliding and roll-up doors as well as numerous open vents and gaps in the walls and roof. There is no power to the building.

CRA collected VI samples from Building 16 in January 2012 (five sub-slab [SS] samples), March 2012 (four SS samples, three indoor air [IA] samples, and one outdoor air [OA] sample), August 2012 (five SS samples, three IA samples, one OA sample), and September 2012 (one SS sample, one IA sample, one OA sample). Methane was not detected in either field measurements or laboratory sample analysis. The maximum VI concentrations of trichloroethene (TCE) were measured in August 2012, but not confirmed in samples collected in September. The maximum sub-slab (SS) TCE concentration was 1,500 parts per billion (ppb), which was greater than the Ohio Department of Health (ODH) SS screening level criteria of 20 ppb, and the action level of 200 ppb. There was one IA TCE concentration (50 ppb)

which was greater than the ODH IA screening level criteria of 2 ppb, and the action level of 20 ppb. During the August 2012 VI sample event, Command Roofing employees were storing material in the building; this material may have contributed to IA and SS concentrations. Photograph 12 in Attachment A shows the material stored during the August 2012 VI sample event. CRA completed confirmatory IA sampling in September 2012. The September 2012 confirmatory IA sample contained TCE at a concentration of 0.098 J ppb, which is less than the ODH screening level. The confirmatory SS sample contained TCE at a concentration of 34 ppb, which was greater than the ODH SS screening level, but less than the ODH action level for TCE. Confirmatory sampling indicates that the VI pathway in Building 16 is not complete, and the August 2012 concentrations are anomalous and may have been affected by background sources of material storage. The SS analytical results are presented in Table 1. The IA analytical results are presented in Table 2. The TCE and methane results are summarized on Figure 1.

Command Roofing Building 16 remains unoccupied and is used for storage only and the Property Managers have informed CRA that there are no plans to lease the building for regular occupancy. Two adult workers infrequently access the building at variable times for short periods for material pick-up. As there is no power to the building, the workers must open the large bay doors in order to provide sufficient light within the building. Based on the condition of the building, lack of building occupancy, and lack of TCE in indoor air (aside from the anomalous detection in the one sample collected in August 2012), CRA and the Respondents recommend that no sub-slab depressurization system (SSDS) be installed in Building 16, unless building use changes (i.e., it is repaired to allow for permanent occupancy). With USEPA's concurrence, the Respondents would request that the Property Manager inform the Respondents should they plan to change the use of the building at which time the Respondents and USEPA would evaluate the need for a SSDS. CRA will also complete visual inspections of the building during other on-site work to look for changes in building use.

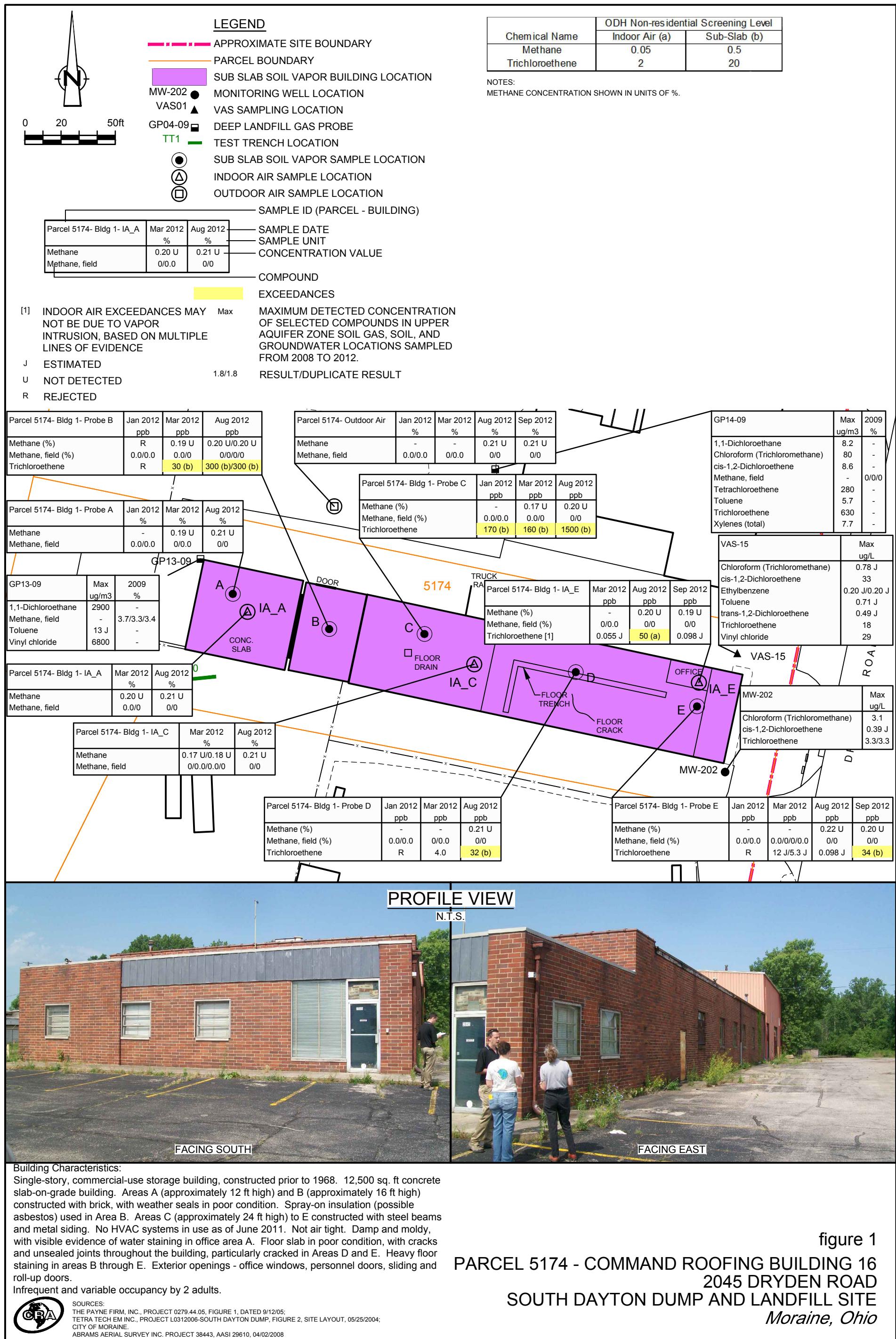


TABLE 1

SUMMARY OF COMMAND ROOFING SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDING 16, 2045 DRYDEN ROAD
VI INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	Parcel 5174, Bldg 1, Probe A	Parcel 5174, Bldg 1, Probe A	Parcel 5174, Bldg 1, Probe A	Parcel 5174, Bldg 1, Probe A	Parcel 5174, Bldg 1, Probe B	Parcel 5174, Bldg 1, Probe C	Parcel 5174, Bldg 1, Probe C			
Sample Location:	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road
Owner / Tenant:	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing
Sample ID:	SS-38443-010512-GL-009	SS-38443-030712-JC-103	SS-38443-080212-GL-038	SS-38443-080312-GL-038	SS-38443-010512-GL-010	SS-38443-030612-JC-087	SS-38443-080312-GL-040	SS-38443-080312-GL-041	SS-38443-010512-GL-011	SS-38443-030612-JC-090
Sample Date:	1/5/2012	3/7/2012	8/2/2012	8/3/2012	1/5/2012	3/6/2012	8/3/2012	8/3/2012	1/5/2012	3/6/2012
Parameter	ODH Sub-Slab Screening Levels (Non- residential) <i>a</i>	ODH Sub-Slab Action Levels (Non- residential) <i>b</i>								
Volatile Organic Compounds										
1,1,1-Trichloroethane	ppb	NC	NC	0.18 U	0.29	1.3	-	R	5.7	33
1,1,2-Tetrachloroethane	ppb	NC	NC	0.20 U	0.061 U	0.061 U	-	R	0.12 U	0.61 U
1,1,2-Trichloroethane	ppb	NC	NC	0.095 U	0.054 U	0.054 U	-	R	0.11 U	0.54 U
1,1-Dichloroethane	ppb	160	1600	0.18 U	0.026 U	0.026 U	-	R	0.052 U	0.26 U
1,1-Dichloroethene	ppb	NC	NC	0.15 U	0.032 U	0.032 U	-	R	0.064 U	0.32 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.25 U	0.098 UJ	0.098 UJ	-	R	0.20 U	0.98 UJ
1,2,4-Trimethylbenzene	ppb	NC	NC	0.26 U	0.063 U	0.20	-	R	0.13 U	0.63 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.090 U	0.044 U	0.044 U	-	R	0.088 U	0.44 U
1,2-Dichlorobenzene	ppb	NC	NC	0.24 U	0.070 U	0.070 U	-	R	0.14 U	0.70 U
1,2-Dichloroethane	ppb	NC	NC	0.16 U	0.047 U	0.047 U	-	R	0.094 U	0.47 U
1,2-Dichloroethene (total)	ppb	NC	NC	0.070 U	-	-	-	R	-	-
1,2-Dichloropropane	ppb	NC	NC	0.070 U	0.052 U	0.052 U	-	R	0.10 U	0.52 U
1,2-Dichlortetrafluoroethane (CFC 114)	ppb	NC	NC	0.61 J	0.31	0.31	-	R	0.55	0.32 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.26 U	0.065 U	0.065 U	-	R	0.13 U	0.65 U
1,3-Butadiene	ppb	NC	NC	0.050 U	0.064 U	0.064 U	-	R	0.13 U	0.64 U
1,3-Dichlorobenzene	ppb	NC	NC	0.22 U	0.065 U	0.065 U	-	R	0.13 U	0.65 U
1,4-Dichlorobenzene	ppb	NC	NC	0.22 U	0.064 U	0.064 U	-	R	0.13 U	0.64 U
1,4-Dioxane	ppb	NC	NC	0.44 U	0.080 UJ	0.080 U	-	R	0.16 U	0.80 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.18 U	0.039 U	0.050 J	-	R	0.078 U	0.39 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.71 J	0.20 UJ	1.7	-	R	0.40 U	2.0 U
2-Chlorotoluene	ppb	NC	NC	0.24 U	0.063 U	0.063 U	-	R	0.13 U	0.63 U
2-Hexanone	ppb	NC	NC	0.20 U	0.058 UU	0.058 U	-	R	0.12 U	0.58 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.24 U	0.064 U	0.064 U	-	R	0.13 U	0.64 U
4-Ethyl toluene	ppb	NC	NC	0.23 U	0.066 U	0.066 U	-	R	0.13 U	0.66 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.13 U	0.045 UU	0.045 U	-	R	0.090 U	0.45 U
Acetaldehyde	ppb	110	NC	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	1.1 J	1.4 U	10	-	R	2.8 U	16 J
Allyl chloride	ppb	NC	NC	0.095 U	0.048 U	0.048 U	-	R	0.096 U	0.48 U
Benzene	ppb	20	200	0.090 U	0.056 U	0.075 J	-	R	0.11 U	0.56 U
Benzyl chloride	ppb	NC	NC	0.23 UU	0.078 U	0.078 U	-	R	0.16 U	0.78 U
Bromodichloromethane	ppb	NC	NC	0.14 U	0.044 U	0.044 U	-	R	0.088 U	0.44 U
Bromoform	ppb	NC	NC	0.095 U	0.048 U	0.048 U	-	R	0.096 U	0.48 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.060 U	0.032 U	0.032 U	-	R	0.064 U	0.32 U
Butane	ppb	NC	NC	0.055 U	0.48	0.064 U	-	R	0.53 J	0.64 U
Carbon disulfide	ppb	NC	NC	0.33 U	0.031 U	0.048 J	-	R	0.062 U	0.31 U
Carbon tetrachloride	ppb	NC	NC	0.17 U	0.038 U	0.038 U	-	R	0.076 U	0.38 U
Chlorobenzene	ppb	NC	NC	0.10 U	0.049 U	0.049 U	-	R	0.098 U	0.49 U
Chlorodifluoromethane	ppb	NC	NC	0.17 U	0.47	0.30	-	R	0.54	0.37 U
Chloroethane	ppb	NC	NC	0.080 U	0.035 U	0.035 U	-	R	0.070 U	0.35 U
Chloroform (Trichloromethane)	ppb	800	8000	0.16 U	0.038 U	0.050 J	-	R	0.14 J	0.61 J
Chloromethane (Methyl chloride)	ppb	NC	NC	0.065 U	0.16 U	0.20 J	-	R	0.32 U	1.6 U
cis-1,2-Dichloroethene	ppb	370	3700	0.070 U	0.060 U	0.060 U	-	R	0.12 U	0.60 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.080 U	0.074 U	0.074 U	-	R	0.15 U	0.74 U
Cyclohexane	ppb	NC	NC	0.20 U	0.040 U	0.21 J	-	R	0.080 U	0.40 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.24 U	0.057 U	0.057 U	-	R	0.11 U	0.57 U
Dibromochloromethane	ppb	NC	NC	0.11 U	0.042 U	0.042 U	-	R	0.084 U	0.42 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	3.7	2.3	4.3	-	R	16	4.2
Ethylbenzene	ppb	2500	25000	0.11 U	0.068 U	0.20	-	R	0.29 J	0.68 U
Hexachlorobutadiene	ppb	NC	NC	0.33 U	0.078 UJ	0.078 UJ	-	R	0.16 U	0.78 U
Hexane	ppb	NC	NC	0.13 U	0.098 J	0.53	-	R	0.13 J	0.32 U
Isopropyl alcohol	ppb	NC	NC	0.19 U	0.28 J	0.044 U	-	R	0.45 J	0.44 U
Isopropyl benzene	ppb	NC	NC	0.16 U	0.060 U	0.060 U	-	R	0.12 U	0.60 U
m&p-Xylenes	ppb	2000	20000	0.24 U	0.12 U	0.73	-	R	0.90	1.2 U
Methyl methacrylate	ppb	NC	NC	0.065 U	0.079 U	0.079 U	-	R	0.16 U	0.79 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.080 U	0.17 U	0.17 U	-	R	0.34 U	1.7 U
Methylene chloride	ppb	NC	NC	0.31 J	0.39 J	0.045 U	-	R	0.090 U	0.45 U
Naphthalene	ppb	29	NC	0.43 UU	0.090 UU	0.090 UU	-	R	0.18 U	0.90 UU
N-Butylbenzene	ppb	NC	NC	0.28 U	0.046 U	0.046 U	-	R	0.092 U	0.46 U
N-Decane	ppb	NC	NC	-	-	0.27 J	-	R	0.11 U	0.56 U
N-Dodecane	ppb	NC	NC	-	-	0.078 UJ	-	R	0.16 U	0.62 U
N-Heptane	ppb	NC	NC	0.050 U	0.066 J	0.36 J	-	R	0.094 U	

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VI INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	Parcel 5174, Bldg 1, Probe A	Parcel 5174, Bldg 1, Probe A	Parcel 5174, Bldg 1, Probe A	Parcel 5174, Bldg 1, Probe A	Parcel 5174, Bldg 1, Probe B	Parcel 5174, Bldg 1, Probe C	Parcel 5174, Bldg 1, Probe C			
Sample Location:	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road
Owner / Tenant:	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing
Sample ID:	SS-38443-010512-GL-009	SS-38443-030712-JC-103	SS-38443-080212-GL-038	SS-38443-080312-GL-038	SS-38443-010512-GL-010	SS-38443-030612-JC-087	SS-38443-080312-GL-040	SS-38443-080312-GL-041	SS-38443-010512-GL-011	SS-38443-030612-JC-090
Sample Date:	1/5/2012	3/7/2012	8/2/2012	8/3/2012	1/5/2012	3/6/2012	3/6/2012	8/3/2012	8/3/2012	3/6/2012
Parameter	ODH Sub-Slab Screening Levels (Non- residential) <i>a</i>	ODH Sub-Slab Action Levels (Non- residential) <i>b</i>								
tert-Butyl alcohol	ppb	NC	NC	0.36 U	0.049 J	0.038 U	-	R	0.090 J	1.5 J
tert-Butylbenzene	ppb	NC	NC	0.24 U	0.066 U	0.066 U	-	R	0.13 U	0.66 U
Tetrachloroethene	ppb	250	2500	0.66 J	0.98	11	-	R	4.6	52
Tetrahydrofuran	ppb	NC	NC	0.090 U	0.063 U	0.063 U	-	R	0.13 U	0.63 U
Toluene	ppb	NC	NC	0.90 J	0.78	2.8	-	R	0.29 J	0.75 J
trans-1,2-Dichloroethene	ppb	NC	NC	0.16 U	0.050 U	0.050 U	-	R	0.10 U	0.50 U
trans-1,3-Dichloropropene	ppb	NC	NC	0.10 U	0.048 U	0.048 U	-	R	0.096 U	0.48 U
Trichloroethene	ppb	20	200	0.49 J	0.64	4.7	-	R	30 ^a	300 ^{ab}
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	0.17 U	0.31	2.9	-	R	0.96	2.6
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.050 U	0.055 J	0.10 J	-	R	0.062 U	0.31 U
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.095 U	0.035 U	0.035 U	-	R	0.070 U	0.35 U
Vinyl chloride	ppb	20	200	0.15 U	0.071 U	0.071 U	-	R	0.14 U	0.71 U
Xylenes (total)	ppb	NC	NC	0.11 U	-	-	-	R	-	-
Gases										
Methane	%	0.5	0.5	-	0.19 U	0.21 U	-	R	0.19 U	0.20 U
Field Parameter										
Methane, field (unfiltered)	%	0.5	0.5	0.0 / 0.0	-	-	-	0.0 / 0.0	-	-
Methane, field (filtered)	%	0.5	0.5	-	0.0 / 0	-	0 / 0	0 / 0.0	0 / 0	0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

JN or NJ - The listed value of the tentatively identified compound is an approximate concentration

R - The presence or absence of the chemical cannot be verified

U - The chemical was not detected in the sample at the detection limit shown.

UI - The chemical was not detected in the sample at the approximate detection limit shown.

NC - No criterion

-- Not applicable.

- Concentration was greater than applicable criteria.

TABLE 1

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BUILDING 16, 2045 DRYDEN ROAD
VI INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORaine, OHIO

Sample Location:	Parcel 5174, Bldg 1, Probe C	Parcel 5174, Bldg 1, Probe D	Parcel 5174, Bldg 1, Probe D	Parcel 5174, Bldg 1, Probe D	Parcel 5174, Bldg 1, Probe E					
Sample Location:	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road
Owner / Tenant:	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing
Sample ID:	SS-38443-080312-GL-042	SS-38443-010512-GL-012	SS-38443-030612-JC-091	SS-38443-080312-GL-044	SS-38443-010512-GL-013	SS-38443-030612-JC-093	SS-38443-030612-JC-094	SS-38443-030612-JC-094	SS-38443-030612-JC-094	SS-38443-080312-GL-045
Sample Date:	8/3/2012	1/5/2012	3/6/2012	8/3/2012	1/5/2012	3/6/2012	3/6/2012	3/6/2012	3/6/2012	8/3/2012
Parameter	ODH Sub-Slab Screening Units	ODH Sub-Slab Action Levels (Non-residential) a	ODH Sub-Slab Action Levels (Non-residential) b							
Volatile Organic Compounds										
1,1,1-Trichloroethane	ppb	NC	NC	2.1 J	R	3.4	18	R	0.89	0.70
1,1,2,2-Tetrachloroethane	ppb	NC	NC	3.3 U	R	0.061 U	0.12 U	R	0.061 U	0.12 U
1,1,2-Trichloroethane	ppb	NC	NC	2.9 U	R	0.054 U	0.11 U	R	0.054 U	0.11 U
1,1-Dichloroethane	ppb	160	1600	1.4 U	R	0.026 U	0.052 U	R	0.026 U	0.052 U
1,1-Dichloroethene	ppb	NC	NC	1.7 U	R	0.032 U	0.064 U	R	0.032 U	0.064 U
1,2,4-Trichlorobenzene	ppb	NC	NC	5.2 U	R	0.098 U	0.20 U	R	0.098 U	0.20 U
1,2,4-Trimethylbenzene	ppb	NC	NC	3.4 U	R	0.063 U	0.13 U	R	0.063 U	0.13 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	2.4 U	R	0.044 U	0.088 U	R	0.044 U	0.088 U
1,2-Dichlorobenzene	ppb	NC	NC	3.7 U	R	0.070 U	0.14 U	R	0.070 U	0.14 U
1,2-Dichloroethane	ppb	NC	NC	2.5 U	R	0.047 U	0.094 U	R	0.047 U	0.094 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	R	-	-	R	-	-
1,2-Dichloropropane	ppb	NC	NC	2.8 U	R	0.052 U	0.10 U	R	0.052 U	0.10 U
1,2-Dichlortetrafluoroethane (CFC 114)	ppb	NC	NC	1.7 U	R	1.3	0.37 J	R	0.21	0.18 J
1,3,5-Trimethylbenzene	ppb	NC	NC	3.5 U	R	0.065 U	0.13 U	R	0.065 U	0.13 U
1,3-Butadiene	ppb	NC	NC	3.4 U	R	0.064 U	0.13 U	R	0.064 U	0.13 U
1,3-Dichlorobenzene	ppb	NC	NC	3.5 U	R	0.065 U	0.13 U	R	0.065 U	0.13 U
1,4-Dichlorobenzene	ppb	NC	NC	3.4 U	R	0.064 U	0.13 U	R	0.064 U	0.13 U
1,4-Dioxane	ppb	NC	NC	4.3 U	R	0.080 U	0.16 U	R	0.080 U	0.19 J
2,2,4-Trimethylpentane	ppb	NC	NC	2.1 U	R	0.039 U	0.078 U	R	0.039 U	0.078 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	11 U	R	0.20 U	0.64 J	R	0.30 J	0.20 U
2-Chlorotoluene	ppb	NC	NC	3.4 U	R	0.063 U	0.13 U	R	0.063 U	0.13 U
2-Hexanone	ppb	NC	NC	3.1 U	R	0.058 U	0.12 U	R	0.058 U	0.12 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	3.4 U	R	0.064 U	0.13 U	R	0.064 U	0.13 U
4-Ethyl toluene	ppb	NC	NC	3.5 U	R	0.066 U	0.13 U	R	0.066 U	0.13 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	2.4 U	R	0.045 U	0.090 U	R	0.045 U	0.090 U
Acetaldehyde	ppb	110	NC	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	75 U	R	1.4 U	4.3 J	R	2.9 J	2.5 J
Allyl chloride	ppb	NC	NC	2.6 U	R	0.048 U	0.096 U	R	0.048 U	0.096 U
Benzene	ppb	20	200	3.0 U	R	0.056 U	0.11 U	R	0.056 U	0.11 U
Benzyl chloride	ppb	NC	NC	4.2 U	R	0.078 U	0.16 U	R	0.078 U	0.16 U
Bromodichloromethane	ppb	NC	NC	2.4 U	R	0.044 U	0.088 U	R	0.044 U	0.088 U
Bromoform	ppb	NC	NC	2.6 U	R	0.048 U	0.096 U	R	0.048 U	0.096 U
Bromomethane (Methyl bromide)	ppb	NC	NC	1.7 U	R	0.032 U	0.064 U	R	0.032 U	0.064 U
Butane	ppb	NC	NC	3.4 U	R	0.12 J	0.18 J	R	0.081 J	0.16 J
Carbon disulfide	ppb	NC	NC	1.7 U	R	0.031 U	7.4	R	0.031 U	0.25 J
Carbon tetrachloride	ppb	NC	NC	2.0 U	R	0.038 U	0.076 U	R	0.066 J	0.056 J
Chlorobenzene	ppb	NC	NC	2.6 U	R	0.049 U	0.098 U	R	0.049 U	0.098 U
Chlorodifluoromethane	ppb	NC	NC	2.0 U	R	0.51	0.25 J	R	0.99	1.1
Chloroethane	ppb	NC	NC	1.9 U	R	0.035 U	0.070 U	R	0.035 U	0.070 U
Chloroform (Trichloromethane)	ppb	800	8000	14	R	0.061 J	0.18 J	R	0.038 U	0.041 J
Chloromethane (Methyl chloride)	ppb	NC	NC	8.6 U	R	0.16 U	0.65 J	R	0.16 U	0.85 J
cis-1,2-Dichloroethene	ppb	370	3700	63	R	0.060 U	0.12 U	R	0.060 U	0.12 U
cis-1,3-Dichloropropene	ppb	NC	NC	4.0 U	R	0.074 U	0.15 U	R	0.074 U	0.15 U
Cyclohexane	ppb	NC	NC	2.1 U	R	0.055 J	0.080 U	R	0.040 U	0.22 J
Cymene (p-Isopropyltoluene)	ppb	NC	NC	3.0 U	R	0.057 U	0.11 U	R	0.057 U	0.11 U
Dibromochloromethane	ppb	NC	NC	2.2 U	R	0.042 U	0.084 U	R	0.042 U	0.084 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	3.6 U	R	1.3	0.82	R	0.74	0.72
Ethylbenzene	ppb	2500	25000	3.6 U	R	0.068 U	0.14 U	R	0.068 U	0.24
Hexachlorobutadiene	ppb	NC	NC	4.2 U	R	0.078 U	0.16 U	R	0.078 U	0.16 U
Hexane	ppb	NC	NC	1.7 U	R	2.0	0.17 J	R	0.15 J	0.86 J
Isopropyl alcohol	ppb	NC	NC	2.4 U	R	0.62 J	0.32 J	R	0.36 J	9.8 J
Isopropyl benzene	ppb	NC	NC	3.2 U	R	0.060 U	0.12 U	R	0.060 U	0.12 U
m&p-Xylenes	ppb	2000	20000	6.4 U	R	0.12 U	0.24 U	R	0.12 U	8.6
Methyl methacrylate	ppb	NC	NC	4.2 U	R	0.079 U	0.16 U	R	0.079 U	0.16 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	9.1 U	R	0.17 U	0.34 U	R	0.17 U	0.34 U
Methylene chloride	ppb	NC	NC	2.4 U	R	0.045 U	1.3	R	0.045 U	1.0
Naphthalene	ppb	29	NC	4.8 U	R	0.090 U	0.18 U	R	0.090 U	0.69 J
N-Butylbenzene	ppb	NC	NC	2.5 U	R	0.046 U	0.092 U	R	0.046 U	0.12 J
N-Decane	ppb	NC	NC	3.0 U	-	-	0.11 U	-	-	2.6
N-Dodecane	ppb	NC	NC	4.2 U	-	-	0.17 J	-	-	1.3 J
N-Heptane	ppb	NC	NC	2.5 U	R	0.047 U	0.094 U	R	0.047 U	0.14 J
Nonane	ppb	NC	NC	2.3 U	-	-	0.086 U	-	-	2.0

TABLE 1

SUMMARY OF COMMAND ROOFING SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
BUILDING 16, 2045 DRYDEN ROAD
VI INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	Parcel 5174, Bldg 1, Probe C	Parcel 5174, Bldg 1, Probe D	Parcel 5174, Bldg 1, Probe D	Parcel 5174, Bldg 1, Probe D	Parcel 5174, Bldg 1, Probe E				
Sample Location:	2045 Dryden Road								
Owner / Tenant:	Command Roofing								
Sample ID:	SS-38443-080312-GL-042	SS-38443-010512-GL-012	SS-38443-030612-JC-091	SS-38443-080312-GL-044	SS-38443-010512-GL-013	SS-38443-030612-JC-093	SS-38443-030612-JC-094	SS-38443-030612-JC-094	SS-38443-080312-GL-045
Sample Date:	8/3/2012	1/5/2012	3/6/2012	8/3/2012	1/5/2012	3/6/2012	3/6/2012	3/6/2012	8/3/2012

Parameter	Units	ODH Sub-Slab Screening Levels (Non-residential)		ODH Sub-Slab Action Levels (Non-residential)		Parcel 5174, Bldg 1, Probe C	Parcel 5174, Bldg 1, Probe D	Parcel 5174, Bldg 1, Probe D	Parcel 5174, Bldg 1, Probe E				
		a	b										
tert-Butyl alcohol	ppb	NC	NC	2.6 J	R	0.044 J	0.15 J	R	0.080 J	0.038 U	0.25 J	0.063 J	
tert-Butylbenzene	ppb	NC	NC	3.5 U	R	0.066 U	0.13 U	R	0.066 U	0.066 U	0.13 U	0.066 U	
Tetrachloroethene	ppb	250	2500	35	R	2.8	39	R	0.32 J	0.13 J	0.080 U	1.4	
Tetrahydrofuran	ppb	NC	NC	3.4 U	R	0.063 U	0.13 U	R	0.063 UJ	0.66 J	0.13 U	0.063 U	
Toluene	ppb	NC	NC	2.9 U	R	0.72	0.45	R	0.27	0.28	53	0.21	
trans-1,2-Dichloroethylene	ppb	NC	NC	10 J	R	0.050 U	0.10 U	R	0.050 U	0.050 U	0.10 U	0.050 U	
trans-1,3-Dichloropropene	ppb	NC	NC	2.6 U	R	0.048 U	0.096 U	R	0.048 U	0.048 U	0.096 U	0.048 U	
Trichloroethene	ppb	20	200	1500 ^{ab}	R	4.0	32 ^a	R	12 J	5.3 J	0.098 J	34 ^a	
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	2.2 J	R	0.23	5.6	R	0.49	0.38	0.43	0.80	
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	1.7 U	R	0.042 J	0.13 J	R	0.057 J	0.057 J	0.077 J	0.082 J	
Vinyl bromide (Bromoethene)	ppb	NC	NC	1.9 U	R	0.035 U	0.070 U	R	0.035 U	0.035 U	0.070 U	0.035 U	
Vinyl chloride	ppb	20	200	3.8 U	R	0.071 U	0.14 U	R	0.071 U	0.071 U	0.17 J	0.071 U	
Xylenes (total)	ppb	NC	NC	-	R	-	-	R	-	-	-	-	
Gases													
Methane	%	0.5	0.5	0.20 U	-	-	0.21 U	-	-	-	0.22 U	0.20 U	
Field Parameter													
Methane, field (unfiltered)	%	0.5	0.5	-	0.0 / 0.0	-	-	0.0 / 0.0	-	-	-	-	
Methane, field (filtered)	%	0.5	0.5	0 / 0	-	0 / 0.0	0 / 0	-	0 / 0.0	0 / 0.0	0 / 0	0 / 0	

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration.

JN or NJ - The listed value of the tentatively identified compound is an approximate concentration.

R - The presence or absence of the chemical cannot be verified.

U - The chemical was not detected in the sample at the detection limit shown.

UJ - The chemical was not detected in the sample at the approximate detection limit shown.

NC - No criterion

-- Not applicable.

- Concentration was greater than applicable criteria.

TABLE 2

SUMMARY OF COMMAND ROOFING INDOOR AIR ANALYTICAL RESULTS
BUILDING 16, 2045 DRYDEN RD
VI INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	Parcel 5174, Outdoor Air	Parcel 5174, Outdoor Air	Parcel 5174, Outdoor Air	Parcel 5174, Outdoor Air	Parcel 5174, Bldg 1, IA_A	Parcel 5174, Bldg 1, IA_A	Parcel 5174, Bldg 1, IA_C	Parcel 5174, Bldg 1, IA_E				
Sample Location:	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	
Owner / Tenant:	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	
Sample ID:	SS-38443-010912-JC-043	OA-38443-030612-JC-085	OA-38443-080312-GL-047	OA-38443-091412-GL-028	IA-38443-030612-JC-086	IA-38443-080312-GL-039	IA-38443-030612-JC-088	IA-38443-030612-JC-089	IA-38443-030612-JC-089	IA-38443-080312-GL-043	IA-38443-030612-JC-092	
Sample Date:	1/9/2012	3/6/2012	8/3/2012	9/14/2012	3/6/2012	8/3/2012	3/6/2012	3/6/2012	3/6/2012	8/3/2012	3/6/2012	
Parameter	ODH Indoor Air Screening Levels (Non-residential)	ODH Indoor Air Action Levels (Non-residential)										
	a	b										
Volatile Organic Compounds												
1,1,1-Trichloroethane	ppb	NC	NC	0.035 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.060 U	0.030 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.040 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.12 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.019 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.11 U	0.054 U
1,1-Dichloroethane	ppb	16	160	0.035 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.087 J	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.030 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.050 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U	0.20 UJ	0.098 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.052 U	0.063 U	0.063 U	0.097 J	1.9	3.7	1.1	0.99	0.13 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.018 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.048 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.14 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.031 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.087 J	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	0.014 U	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.014 U	0.052 U	0.052 U	0.052 U	0.071 J	0.052 U	0.052 U	0.10 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.051 U	0.065 U	0.065 U	0.065 U	0.61	1.1	0.32	0.31	0.13 U
1,3-Butadiene	ppb	NC	NC	0.010 U	0.064 U	0.064 U	0.081 J	0.064 U	0.064 U	0.064 U	0.13 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.044 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.13 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.044 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.13 U	0.064 U
1,4-Dioxane	ppb	NC	NC	0.088 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.40 J	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.066 J	0.039 J	0.052 J	0.10 J	0.34 J	0.39 J	0.23 J	0.21 J	0.38 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.43 J	0.20 U	0.79 J	0.46 J	0.33 J	30	0.36 J	0.32 J	44
2-Chlorotoluene	ppb	NC	NC	0.047 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.13 U	0.063 U
2-Hexanone	ppb	NC	NC	0.039 U	0.058 U	0.058 U	0.058 U	0.058 U	0.12 J	0.058 U	0.058 U	0.12 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.047 U	0.064 U	0.064 U	0.064 U	0.092 J	0.064 U	0.064 U	0.13 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.046 U	0.066 U	0.066 U	0.066 U	0.85	0.88	0.43	0.40	0.13 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.026 U	0.045 U	0.13 J	0.045 U	0.045 U	0.25 J	0.045 U	0.10 J	0.045 U
Acetaldehyde	ppb	11	NC	-	-	10 UJ	-	-	-	-	-	-
Acetone	ppb	NC	NC	1.8 J	1.4 U	7.6	2.8 J	18	37	11	69	11
Allyl chloride	ppb	NC	NC	0.019 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	0.048 U
Benzene	ppb	2	20	0.27	0.14 J	0.13 J	0.23	0.40	0.50	0.35	0.31	0.26
Benzyl chloride	ppb	NC	NC	0.046 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.16 U	0.078 U
Bromodichloromethane	ppb	NC	NC	0.028 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.088 U	0.044 U
Bromoform	ppb	NC	NC	0.019 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.012 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	0.032 U
Butane	ppb	NC	NC	2.2	0.89	0.70	1.1	2.3	1.7	6.6	1.6	1.4
Carbon disulfide	ppb	NC	NC	0.066 U	0.031 U	0.16 J	0.031 U	0.071 J	0.54	0.043 J	0.031 J	0.26 J
Carbon tetrachloride	ppb	NC	NC	0.064 J	0.049 J	0.074 J	0.075 J	0.079 J	0.075 J	0.089 J	0.082 J	0.077 J
Chlorobenzene	ppb	NC	NC	0.020 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.31 J	1.1	0.34	0.48	0.38	0.53	0.34	0.36	0.52
Chloroethane	ppb	NC	NC	0.016 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.13 J	0.035 U
Chloroform (Trichloromethane)	ppb	80	800	0.031 U	0.038 U	0.038 U	0.055 J	0.038 U	0.038 U	0.038 U	0.038 U	0.076 U
Chloromethane (Methyl chloride)	ppb	NC	NC	0.48 J	0.75	0.59	0.60	0.47 J	0.78	0.64	0.63	0.82 J
cis-1,2-Dichloroethene	ppb	37	370	0.014 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.12 U	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.016 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.15 U	0.074 U
Cyclohexane	ppb	NC	NC	0.067 J	0.040 U	0.052 J	0.14 J	2.8	2.7	0.98	0.89	3.2
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.048 U	0.057 U	0.057 U	0.057 U	0.057 U	0.14 J			

TABLE 2

SUMMARY OF COMMAND ROOFING INDOOR AIR ANALYTICAL RESULTS
BUILDING 16, 2045 DRYDEN RD
VI INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	Parcel 5174, Outdoor Air	Parcel 5174, Outdoor Air	Parcel 5174, Outdoor Air	Parcel 5174, Outdoor Air	Parcel 5174, Bldg 1, IA_A	Parcel 5174, Bldg 1, IA_A	Parcel 5174, Bldg 1, IA_C	Parcel 5174, Bldg 1, IA_E			
Sample Location:	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road	2045 Dryden Road
Owner / Tenant:	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing	Command Roofing
Sample ID:	SS-38443-010912-JC-043	OA-38443-030612-JC-085	OA-38443-080312-GL-047	OA-38443-091412-GL-028	IA-38443-030612-JC-086	IA-38443-080312-GL-039	IA-38443-030612-JC-088	IA-38443-030612-JC-089	IA-38443-030612-JC-089	IA-38443-080312-GL-043	IA-38443-030612-JC-092
Sample Date:	1/9/2012	3/6/2012	8/3/2012	9/14/2012	3/6/2012	8/3/2012	3/6/2012	3/6/2012	3/6/2012	8/3/2012	3/6/2012
Parameter	ODH Indoor Air Units	ODH Indoor Air Screening Levels (Non-residential)	ODH Indoor Air Action Levels (Non-residential)								
		<i>a</i>	<i>b</i>								
N-Dodecane	ppb	NC	NC	-	-	0.11 J	0.078 U	0.078 U	0.34 J	0.078 U	0.078 U
N-Heptane	ppb	NC	NC	0.15 J	0.063 J	0.088 J	0.23 J	7.2	5.5	1.7	1.6
Nonane	ppb	NC	NC	-	-	0.085 J	0.043 U	3.0	4.2	1.0	1.0
N-Propylbenzene	ppb	NC	NC	0.050 U	0.056 U	0.056 U	0.056 U	0.57	0.50	0.27 J	0.25 J
N-Undecane	ppb	NC	NC	-	-	0.063 J	0.062 U	0.24 J	2.4	0.13 J	0.18 J
Octane	ppb	NC	NC	-	-	0.051 J	0.045 J	0.79	0.99	0.47	0.43
o-Xylene	ppb	200	2000	0.10 J	0.061 U	0.063 J	0.12 J	1.1	3.0	0.78	0.74
Pentane	ppb	NC	NC	-	-	0.55 J	0.87 J	8.3	46	7.0	7.3
Styrene	ppb	NC	NC	0.030 U	0.058 U	0.058 U	0.058 U	0.058 U	0.085 J	0.058 U	0.058 U
tert-Butyl alcohol	ppb	NC	NC	0.071 U	0.038 U	0.038 U	0.038 U	0.045 J	0.27 J	0.059 J	0.20 J
tert-Butylbenzene	ppb	NC	NC	0.047 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
Tetrachloroethene	ppb	25	250	0.011 U	0.040 U	0.040 U	0.054 J	0.040 U	0.040 U	0.040 U	0.24 J
Tetrahydrofuran	ppb	NC	NC	0.018 U	0.063 U	0.063 U	0.11 J	0.26 J	0.29 J	0.063 U	0.087 J
Toluene	ppb	NC	NC	0.65	0.18 J	1.1	0.61	41	44	19	18
trans-1,2-Dichloroethene	ppb	NC	NC	0.032 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U
trans-1,3-Dichloropropene	ppb	NC	NC	0.020 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U
Trichloroethene	ppb	2	20	0.42	0.66	0.036 U	0.059 J	0.036 U	0.050 J	0.036 U	0.036 U
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	0.24	0.23	0.50	0.30	0.18 J	0.60	0.16 J	0.17 J
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.071 J	0.077 J	0.076 J	0.072 J	0.062 J	0.078 J	0.063 J	0.067 J
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.019 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.070 U
Vinyl chloride	ppb	2	20	0.029 U	0.071 U	0.071 U	0.071 U	0.071 U	0.26	0.071 U	0.071 U
Xylenes (total)	ppb	NC	NC	0.37	-	-	-	-	-	-	-
Gases											
Methane	%	0.05	0.05	-	-	0.21 U ^{ab}	0.21 U ^{ab}	0.20 U ^{ab}	0.21 U ^{ab}	0.17 U ^{ab}	0.18 U ^{ab}
Field Parameter											
Methane, field (unfiltered)	%	0.05	0.05	0.0 / 0.0	-	-	-	-	-	-	-
Methane, field (filtered)	%	0.05	0.05	-	0.0 / 0	0 / 0	-	0.0 / 0	0 / 0	0.0 / 0	0.0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

JN or NJ - The listed value of the tentatively identified compound is an approximate concentration

R - The presence or absence of the chemical cannot be verified

U - The chemical was not detected in the sample at the detection limit shown.

UJ - The chemical was not detected in the sample at the approximate detection limit shown.

NC - No criterion

-- Not applicable.

- Concentration was greater than applicable criteria.

TABLE 2

SUMMARY OF COMMAND ROOFING INDOOR AIR ANALYTICAL RESULTS
BUILDING 16, 2045 DRYDEN RD
VI INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

<i>Sample Location:</i>		<i>Parcel 5174, Bldg 1, IA_E</i>	<i>Parcel 5174, Bldg 1, IA_E</i>
<i>Sample Location:</i>		<i>2045 Dryden Road</i>	<i>2045 Dryden Road</i>
<i>Owner / Tenant:</i>		<i>Command Roofing</i>	<i>Command Roofing</i>
<i>Sample ID:</i>		<i>IA-38443-080312-GL-046</i>	<i>IA-38443-091412-GL-027</i>
<i>Sample Date:</i>		<i>8/3/2012</i>	<i>9/14/2012</i>
Parameter	Units	ODH Indoor Air Screening Levels (Non-residential)	ODH Indoor Air Action Levels (Non-residential)
		<i>a</i>	<i>b</i>
Volatile Organic Compounds			
1,1,1-Trichloroethane	ppb	NC	NC
1,1,2,2-Tetrachloroethane	ppb	NC	0.061 U
1,1,2-Trichloroethane	ppb	NC	0.054 U
1,1-Dichloroethane	ppb	16	160
1,1-Dichloroethene	ppb	NC	0.026 U
1,2,4-Trichlorobenzene	ppb	NC	0.052 U
1,2,4-Trimethylbenzene	ppb	NC	0.032 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	0.064 U
1,2-Dichlorobenzene	ppb	NC	0.20 U
1,2-Dichloroethane	ppb	NC	0.098 U
1,2-Dichloroethene (total)	ppb	NC	0.063 U
1,2-Dichloropropane	ppb	NC	0.44
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	0.044 U
1,3,5-Trimethylbenzene	ppb	NC	0.088 U
1,3-Butadiene	ppb	NC	0.070 U
1,3-Dichlorobenzene	ppb	NC	0.14 U
1,4-Dichlorobenzene	ppb	NC	0.047 U
1,4-Dioxane	ppb	NC	0.14 J
2,2,4-Trimethylpentane	ppb	NC	-
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	-
2-Chlorotoluene	ppb	NC	0.052 U
2-Hexanone	ppb	NC	0.10 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	0.11 J
4-Ethyl toluene	ppb	NC	0.064 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	0.13 U
Acetaldehyde	ppb	11	NC
Acetone	ppb	NC	2.1
Allyl chloride	ppb	NC	0.064 U
Benzene	ppb	2	20
Benzyl chloride	ppb	NC	0.056 U
Bromodichloromethane	ppb	NC	0.26 J
Bromoform	ppb	NC	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	0.064 U
Butane	ppb	NC	0.032 U
Carbon disulfide	ppb	NC	0.13 U
Carbon tetrachloride	ppb	NC	0.045 U
Chlorobenzene	ppb	NC	0.078 U
Chlorodifluoromethane	ppb	NC	0.064 U
Chloroethane	ppb	NC	0.19 J
Chloroform (Trichloromethane)	ppb	80	800
Chloromethane (Methyl chloride)	ppb	NC	0.039 U
cis-1,2-Dichloroethene	ppb	37	370
cis-1,3-Dichloropropene	ppb	NC	0.060 U
Cyclohexane	ppb	NC	0.15 J
Cymene (p-Isopropyltoluene)	ppb	NC	1.1
Dibromochloromethane	ppb	NC	0.41 J
Dichlorodifluoromethane (CFC-12)	ppb	NC	0.27 J
Ethylbenzene	ppb	250	2500
Hexachlorobutadiene	ppb	NC	7.7
Hexane	ppb	NC	0.074 U
Isopropyl alcohol	ppb	NC	1.8
Isopropyl benzene	ppb	NC	0.053 U
m&p-Xylenes	ppb	200	2000
Methyl methacrylate	ppb	NC	0.040 U
Methyl tert butyl ether (MTBE)	ppb	NC	0.035 U
Methylene chloride	ppb	NC	0.65 J
Naphthalene	ppb	2.9	8.4
N-Butylbenzene	ppb	NC	0.057 U
N-Decane	ppb	NC	0.26 J
			0.11 U
			0.71 J
			0.12 U
			4.1
			0.16 U
			0.34 U
			0.91 J
			0.18 U
			0.046 U
			0.092 U
			0.056 U
			0.47 J

TABLE 2

SUMMARY OF COMMAND ROOFING INDOOR AIR ANALYTICAL RESULTS
BUILDING 16, 2045 DRYDEN RD
VI INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	Parcel 5174, Bldg 1, IA_E	Parcel 5174, Bldg 1, IA_E
Sample Location:	2045 Dryden Road	2045 Dryden Road
Owner / Tenant:	Command Roofing	Command Roofing
Sample ID:	IA-38443-080312-GL-046	IA-38443-091412-GL-027
Sample Date:	8/3/2012	9/14/2012

Parameter	Units	ODH Indoor Air		ODH Indoor Air	
		Screening Levels (Non-residential)	Action Levels (Non-residential)	a	b
N-Dodecane	ppb	NC	NC	0.078 U	0.16 U
N-Heptane	ppb	NC	NC	0.047 U	1.6
Nonane	ppb	NC	NC	0.043 U	0.62 J
N-Propylbenzene	ppb	NC	NC	0.056 U	0.11 U
N-Undecane	ppb	NC	NC	0.062 U	0.12 U
Octane	ppb	NC	NC	0.036 U	0.30 J
o-Xylene	ppb	200	2000	0.061 U	0.97
Pentane	ppb	NC	NC	0.32 J	19
Styrene	ppb	NC	NC	0.058 U	0.12 U
tert-Butyl alcohol	ppb	NC	NC	0.055 J	0.15 J
tert-Butylbenzene	ppb	NC	NC	0.066 U	0.13 U
Tetrachloroethene	ppb	25	250	1.8	0.097 J
Tetrahydrofuran	ppb	NC	NC	0.063 U	0.13 U
Toluene	ppb	NC	NC	0.51	19
trans-1,2-Dichloroethene	ppb	NC	NC	0.050 U	0.10 U
trans-1,3-Dichloropropene	ppb	NC	NC	0.048 U	0.096 U
Trichloroethene	ppb	2	20	50 ^{ab}	0.098 J
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	1.5	0.32 J
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.079 J	0.067 J
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.035 U	0.070 U
Vinyl chloride	ppb	2	20	0.071 U	0.14 U
Xylenes (total)	ppb	NC	NC	-	-
Gases					
Methane	%	0.05	0.05	0.20 U ^{ab}	0.19 U ^{ab}
Field Parameter					
Methane, field (unfiltered)	%	0.05	0.05	-	-
Methane, field (filtered)	%	0.05	0.05	0 / 0	-

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

JN or NJ - The listed value of the tentatively identified compound is an approximate concentration

R - The presence or absence of the chemical cannot be verified

U - The chemical was not detected in the sample at the detection limit shown.

UJ - The chemical was not detected in the sample at the approximate detection limit shown.

NC - No criterion

-- Not applicable.

[redacted] - Concentration was greater than applicable criteria.

Attachment A

Photographic Log



PHOTO 1: EXTERIOR EAST SIDE (STREET-VIEW), LOOKING WEST (JUNE 2011)



PHOTO 2: EXTERIOR NORTH SIDE, LOOKING SOUTH (JUNE 2011)

Attachment A

PHOTOGRAPHIC LOG

COMMAND ROOFING BUILDING 16

2045 DRYDEN ROAD, SOUTH DAYTON DUMP AND LANDFILL SITE

Moraine, Ohio





PHOTO 3: NORTH SIDE OF REAR STORAGE BUILDING, LOOKING SOUTH (JUNE 2011)

Attachment A

PHOTOGRAPHIC LOG

COMMAND ROOFING BUILDING 16

2045 DRYDEN ROAD, SOUTH DAYTON DUMP AND LANDFILL SITE

Moraine, Ohio





PHOTO 4: LOCATION OF SUSPECTED UST, NORTH SIDE OF BUILDING
(JUNE 2011)

Attachment A

PHOTOGRAPHIC LOG

COMMAND ROOFING BUILDING 16

2045 DRYDEN ROAD, SOUTH DAYTON DUMP AND LANDFILL SITE

Moraine, Ohio





PHOTO 5: EXTERIOR WEST SIDE, LOOKING EAST (JUNE 2011)



PHOTO 6: BUILDING INTERIOR (JUNE 2011)

Attachment A

PHOTOGRAPHIC LOG
COMMAND ROOFING BUILDING 16
2045 DRYDEN ROAD, SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio





PHOTO 7: FLOOR TRENCH



PHOTO 8: BUILDING INTERIOR (DECEMBER 2013)

Attachment A



PHOTOGRAPHIC LOG
COMMAND ROOFING BUILDING 16
2045 DRYDEN ROAD, SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio



PHOTO 9: BUILDING INTERIOR (DECEMBER 2013)



PHOTO 10: BUILDING INTERIOR (DECEMBER 2013)

Attachment A

PHOTOGRAPHIC LOG
COMMAND ROOFING BUILDING 16
2045 DRYDEN ROAD, SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio





PHOTO 11: BUILDING INTERIOR - SS PROBE D AREA (DECEMBER 2011)

Attachment A

PHOTOGRAPHIC LOG

COMMAND ROOFING BUILDING 16

2045 DRYDEN ROAD, SOUTH DAYTON DUMP AND LANDFILL SITE

Moraine, Ohio





PHOTO 12: MATERIAL STORAGE - POTENTIAL SOURCE OF IA PROBE E EXCEEDANCE (AUGUST 2012)

Attachment A

PHOTOGRAPHIC LOG

COMMAND ROOFING BUILDING 16

2045 DRYDEN ROAD, SOUTH DAYTON DUMP AND LANDFILL SITE

Moraine, Ohio



Attachment B

Building Physical Survey Questionnaire

FORM 1: BUILDING PHYSICAL SURVEY QUESTIONNAIRE

Date: June 22, 2011 Time: 11:00

Inspector: Adam Honey, CRA

Address: 2045 Dryden Road

Site Layout: Parcel Number: 5174 Building: 1

Building Owner: Boesch & Grillot

Occupant Name: Command Roofing

Contact Name: Rob Hodge / Don Philpot (owner)

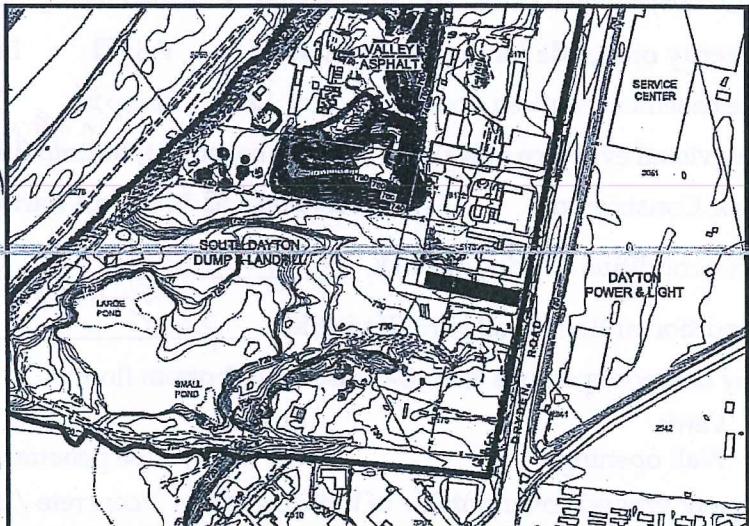
Phone Number: 937-296-1551/937-601-2922

Time resident-employed in home/building? ~3 yrs

Occupation: Industrial/Commercial Roofing

Number and Age of Occupants Adults: 0 (occas. 1-2)

Children: 0



BUILDING TYPE: One-Story Two-Storey Multi-Storey Brick Siding Stucco

(Circle One) Residential / Industrial / Commercial / Multi-use / Other (specify) vacant

If residential, what type (circle): Single family / Condo / Multi-family / Other (specify) _____

If multiple units, how many? N/A Only accessed to pick up materials

If commercial, what is the business? roofing supply storage Hours of Occupation/Occupancy? variable but infrequent

Does the commercial property include residences (i.e., multi-use)? Y N

If yes, how many? N/A existing footprint visible w/ one possible addition in 1984

DESCRIBE BUILDING: 3 stages of construction A+B, D, E and C YEAR CONSTRUCTED: pre-1968, C

Is the building insulated? Y * N U/K How air tight? Tight / Average / Not Tight may have been later

Previous Uses: Pucheye boiler built boilers at facility for many years (copper) (shop)

WEATHER SEALS: General Condition: Good Fair Poor Not Present

Are doors/windows kept open to allow for outdoor-to-indoor air exchange? only when moving material in and out otherwise unoccupied

BASEMENT: None Finished Unfinished Depth below reference point (meters) Floor covering

BOTTOM FLOOR Partial _____

Full _____

Crawl space N/A N/A _____

Slab-on-grade carpet (moldy) in office (A), concrete elsewhere

Is the basement/bottom floor used as a living/work space area? (circle) Y / N

Number of floors at or above grade: 1 Building * spray on insulation present in parts 3 ~~3~~ of building from 5 ft ~~to ceiling~~

Depth of basement below grade: N/A ft. Basement Size: ~12,500 ft² from 5 ft ~~to ceiling~~

- possible UST I think it was just in B

FORM 1: BUILDING PHYSICAL SURVEY QUESTIONNAIRE

Foundation construction: Poured concrete Concrete block Cinder block Stone

Foundation walls: Poured Block Stone Other _____

Foundation walls: Unsealed Sealed Sealed with _____

Integrity of foundation walls: Good Fair Poor

C,D,E
Steel beam w/
Metal siding

The basement/bottom floor is: Wet Damp Dry Moldy - could not enter building

Any visual evidence of leakage through basement/bottom floor walls or floor Yes No in office

Floor Construction: Poured concrete Wood Earth Brick Other: _____

Floor condition (cracks, drains): Very bad condition, slab is crumbly in D&E, cracks throughout
unsealed joints

Condition at floor/wall joint (if visible): Poor

Any exterior openings from the basement/bottom floor:

- | | | |
|--|--|--|
| <input type="checkbox"/> Vents | <input type="checkbox"/> Fans | <input checked="" type="checkbox"/> Windows office area |
| <input type="checkbox"/> Wall openings | <input type="checkbox"/> Utility pipe penetrations | <input checked="" type="checkbox"/> Other: roll up door & sliding door |

Type of ground cover outside of building: grass / concrete / asphalt / other (specify): _____

Sub-slab vapor/moisture barrier in place? Yes No Don't know Type of barrier: _____

RADON SYSTEM: Yes No Is the system active or passive? Active / Passive

Do you have a sump?: Yes No Where: _____ (show on figure)

If yes, sealed open NA If yes, is there water in the sump?: Yes No

Have there ever been a fire in the building?: Yes No No evidence of one

If yes, describe its location and extent: _____

Is there a laundry room located inside the house/building?: Yes No

If yes, describe its location: _____

WATER AND SEWAGE municipal water & sewer → but not used
Service turned off

Is this building serviced with municipal water? Yes No

Water well present?: Yes No Don't know Is well used for drinking water? Yes No

Well location: _____ (show on figure) What do you use the well for?: _____

Do you have a cistern?: Yes No Don't know

If yes, describe its location: _____

Do you have a septic system?: Yes No

If yes, describe its location: _____ (show on figure)

If yes, describe how septic system is cleaned: _____

GARAGE: Is there an attached garage? Yes No Describe: _____

FORM 1: BUILDING PHYSICAL SURVEY QUESTIONNAIRE

HEATING, VENTILLATION, AND AIR CONDITIONING

Type of heating system(s) used (circle all that apply, note primary) - currently no electricity, water, or heat in building

- | | | | | | |
|---------------------|--------------------------|------------------|--------------------------|---------------------|--------------------------|
| Hot air circulation | <input type="checkbox"/> | Heat pump | <input type="checkbox"/> | Hot water baseboard | <input type="checkbox"/> |
| Space heaters | <input type="checkbox"/> | Stream radiation | <input type="checkbox"/> | Radiant floor | <input type="checkbox"/> |
| Electric baseboard | <input type="checkbox"/> | Wood stove | <input type="checkbox"/> | Outdoor wood boiler | <input type="checkbox"/> |

FURNACE: Location:

- | | | | | | |
|-----------|--------------------------|------------|--------------------------|---------|--------------------------|
| Type: Gas | <input type="checkbox"/> | Forced air | <input type="checkbox"/> | Wood | <input type="checkbox"/> |
| Oil | <input type="checkbox"/> | Hot water | <input type="checkbox"/> | Propane | <input type="checkbox"/> |
| Electric | <input type="checkbox"/> | Coal | <input type="checkbox"/> | Other: | _____ |

Does furnace have outside combustion air vent? _____

Do you have a fireplace? Yes No Does fireplace have an outside combustion air vent? Yes No

Do you use kerosene space heaters? Yes No

HVAC in office area not in use

heat from floor vents

return air through wall vents

AIR CONDITIONER: None Central Window units

(If yes, which rooms and capacities?) _____

SPILL/CONTAMINANT SOURCE INFORMATION

Visual evidence of spills/releases: floor is heavily stained throughout B-E, water staining in A

Type of petroleum/VOC release? unknown

When did the release occur? unknown

What areas of the building have been impacted by the release? most of B-E

Are there any odors? Yes No If yes, describe the odors: paint odour, faint pervasive oily, sour

Where are the release-related odors found? -mold odor in offices

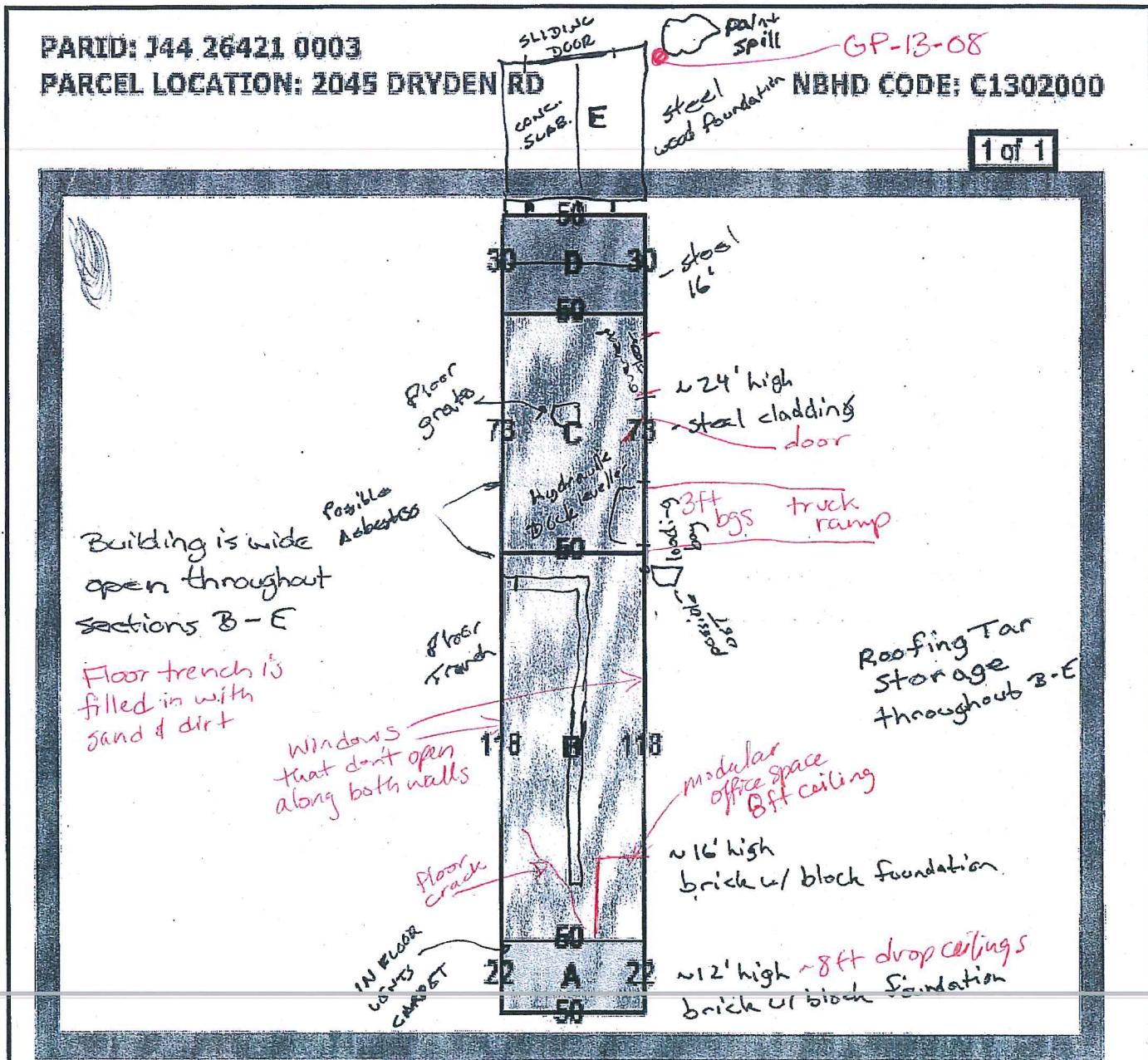
Photo	Direction	Subject
064	northwest	-building exterior; gross + asphalt surface, brick construction at front
065	west	-building entrance
066	southwest	-north building exterior showing various additions (Parts A,B,C)
068	southwest	-from left: Parts C,D+E of building, weathered asphalt surface
069	south	-union b/w Parts B+C, possible vent pipe + fill port (in ground) at center
073	east	-Part E showing construction, incl. wood at base. GP-13-09 in foreground
311	west	-interior of Part E
312	south	-interior of Part D showing floor staining
314	south	-interior of Part D showing floor staining + tar buckets
316	west	-interior of Part C showing floor grate
317	southwest	-interior of Part B showing floor trench + staining (trench fill w/sand)
318	east	-modular office area in Part B
319	north	-washroom in Part B, reportedly disconnected

FORM 1: BUILDING PHYSICAL SURVEY QUESTIONNAIRE

Building Layout:

 Parcel Number 5174; Building 1

Mark the following on the below Figure: Additions or Modifications; door/windows/loading docks kept open for air exchange; building compartmentalization, including size and locations of compartments



A MULTI-USE OFFICE, 1100 Sq. Ft.

B LIGHT MANUFACTURING, 5900 Sq. Ft.

C LIGHT MANUFACTURING, 3650 Sq. Ft.

D LIGHT MANUFACTURING, 1500 Sq. Ft.

Part A is finished as offices, but is currently unused.